



Attorney Docket No. 58248-CIP (47606)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Chun et al.

U.S.S.N.: ~~10/684,364~~ 10/684,346 EXAMINER: Not Yet Assigned

FILED: October 11, 2003 GROUP: Not Yet Assigned

FOR: TARGET DETECTION SYSTEM HAVING A CONFORMATIONALLY  
SENSITIVE PROBE COMPRISING A NUCLEIC ACID BASED SIGNAL  
TRANSDUCER

\*\*\*\*\*  
CERTIFICATE OF MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box, Alexandria, VA 22313-1450 on February 12, 2004.

By: Sharon Bizokas

Sharon Bizokas

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

\*\*\*\*\*  
TRANSMITTAL LETTER

Transmitted herewith for filing in the above-referenced patent application are the following documents:

1. Information Disclosure Statement (4 pages) and 1449 Form (2 pages);
2. References for IDS (7 references);
3. This transmittal letter (1 page) (x2); and
4. Return Receipt Postcard

The Commissioner is hereby authorized to charge any excess fees that may be required, or credit any overpayment to Deposit Account No. 04-1105. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Date: February 12, 2004

Kathryn A. Piffat, Ph.D.

Kathryn A. Piffat, Ph.D., Reg. No. 34,901

Attorney for Applicant(s)

Intellectual Property Practice Group of

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Customer No. 21874



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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

10/684,346

II. COPIES

- a. X Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed. Copies of U.S. Patents are no longer required.
- b. \_\_\_\_\_ This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application Serial No. \_\_\_\_\_, filed on \_\_\_\_\_. The following references were submitted to, and/or cited by, the Office in the prior application (s) and, therefore, are not required to be provided in this application.

III. CONCISE EXPLANATION OF THE RELEVANCE  
(check at least one box)

- a. X Except as may be indicated below in (b), all of the patents, publications or other information are in the English language or were cited in an English language Search Report, a copy of which is attached hereto (concise explanation not required).
- b. \_\_\_\_\_ A concise explanation of the relevance of all patents, publications or other information listed that is not in the English language is as follows:
- c. \_\_\_\_\_ The following additional information is provided for the Examiner's consideration:

FEEs

IV. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(b)  
(check one box)

- a. \_\_\_\_\_ within three months of the filing date of a national application (37 C.F.R. § 1.97(b) (1). No fee or certification is required.
- b. \_\_\_\_\_ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b) (2). No fee or certification is required.

- c. X Before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b) (3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below, or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).

V. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(c):  
(check one box)

before the mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c) (1)) or before the mailing date of a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c) (2)).

- a. \_\_\_\_\_ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

or

- b. X See the certification below. No fee is required.

VI. STATEMENT UNDER 37 C.F.R. § 1.97(e) (check only one box)

The undersigned hereby states that

- a. \_\_\_\_\_ each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS; or
- b. \_\_\_\_\_ no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

10/684,346

c. \_\_\_\_\_ Some of the items of information were cited in a communication from a foreign Patent Office. As to this information, the undersigned certifies that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

\_\_\_\_\_ Please charge Deposit Account No. 04-1105 in the amount of \$180.00 for the above-indicated fee. A triplicate copy of this paper is attached.

X No fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule, with a petition if necessary, and charge the appropriate fee to Deposit Account No. 04-1105.

Respectfully submitted,

Date: February 12, 2004



Kathryn A. Piffat, Ph.D., Reg. No. 34,901

Attorney for Applicant(s)

Intellectual Property Practice Group of

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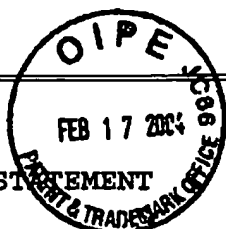
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Customer No. 21874

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT



ATTY DOCKET NO.

58248-CIP  
(47606)

SERIAL NO.

~~10/684,364~~  
10/684,346

APPLICANT(S): Chun et al.

FILING DATE:  
10/11/03

ART UNIT:

## UNITED STATES PATENT DOCUMENTS

EXAM. INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPR
	AA	4,447,546	5/8/84	Hirschfeld	436	527	8/23/82
	AB	4,708,929	11/24/87	Henderson	435	7	4/8/85
	AC	4,764,459	8/16/88	Hampar et al.	435	5	12/28/84
	AD	4,942,149	7/17/90	Shinbo et al.	502	401	8/25/89
	AE	4,968,602	11/6/90	Dattagupta	435	6	11/21/89
	AF	5,489,507	2/6/96	Chehab	435	6	5/1/91
	AG	5,578,458	11/26/96	Caskey et al.	435	6	10/1/91
	AH	5,616,465	4/1/97	Lucas et al.	435	6	8/9/95
	AI	5,658,732	8/19/97	Ebersole et al.	435	6	3/1/95
	AJ	5,876,675	3/2/99	Kennedy	422	99	8/5/97
	AK	5,885,470	3/23/99	Parce et al.	216	33	4/14/97
	AL	5,925,517	7/20/99	Tyagi et al.	435	6	5/12/95
	AM	5,942,443	8/24/99	Parce et al.	436	514	6/28/96
	AN	5,952,491	9/14/99	Leiner et al.	540	467	5/27/98
	AO	5,981,167	11/9/99	Taremi et al.	435	4	2/10/98
	AP	6,027,879	2/22/00	Lucas et al.	435	6	8/9/95

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN YES/NO
	BA	WO 01/85997 A1	15.11.2001	PCT	C12Q	1/68	Y

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

CA	Chen et al., "Highly sensitive biological and chemical sensors based on reversible fluorescence quenching in a conjugated polymer", PNAS 96(22):12287-12292 (1999)
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FORM PTO-1449		ATTY DOCKET NO.	SERIAL NO.
INFORMATION DISCLOSURE STATEMENT		58248-CIP (47606)	<del>10/684,364</del> 10/684,346
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		FILING DATE: 10/11/03	ART UNIT:
UNITED STATES PATENT DOCUMENTS			
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)			
	CB	Fang et al., "Designing a Novel Molecular Beacon for Surface-Immobilized DNA Hybridization Studies", J. Am. Chem. Soc., 121:2921-2922 (1999)	
	CC	Grakoui et al., "A cis-Acting Mutation in the Sindbis Virus Junction Region Which Affects Subgenomic RNA Synthesis", Journal of Virology, 63(12):5216-5227 (1989)	
	CD	Griffin et al., "Direct genetic analysis by matrix-assisted laser desorption/ionization mass spectrometry", Proc. Natl. Acad. Sci. USA, 96:6301-6306 (1999)	
	CE	Jeong et al., "Kinase Assay Based on Thiophosphorylation and Biotinylation", BioTechniques, 27(6):1232-1238 (1999)	
	CF	Webb, "A continuous spectrophotometric assay for inorganic phosphate and for measuring phosphate release kinetics in biological systems", Proc. Natl. Acad. Sci. USA, 89:4884-4887 (1992)	
Examiner:		Date:	

BOS2\_433756.1